

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO. : 7,672,447 B2

APPLICATION NO. : 09/584,796

ISSUE DATE : March 2, 2010

INVENTOR(S) : Lindqvist, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 8, delete "Enchede," and insert - - Enschede - -, therefor.

In Fig. 7, Sheet 5 of 8, for Tag "104", Line 1, delete " $V_i$ ." and insert - -  $V_i$  - -, therefor.

In Column 1, Line 43, delete "General" and insert - - Generally - -, therefor.

In Column 2, Line 52, delete "symbols." and insert - - symbol. - -, therefor.

In Column 2, Line 53, after "is" insert - - (L+N) - -.

In Column 5, Line 33, delete "of" and insert - - for - -, therefor.

In Column 5, Line 51, in Equation (1), delete " $X_i=[X_i(0), X_i(1),]$ " and insert - -  $X_i=[X_i(0), X_i(1),]$  - -, therefor.

In Column 6, Line 2, delete "receiving" and insert - - received - -, therefor.

In Column 6, Line 10, in Equation (4), delete " $x_i=QX_i$ " and insert - -  $s_i=QX_i$  - -, therefor.

In Column 7, Line 9, delete " $N \times I$ " and insert - -  $N \times 1$  - -, therefor.

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In Column 9, Line 10, delete " $E_i = Y_i = \hat{Y}_i$ " and insert - -  $E_i = Y_i - \hat{Y}_i$  - - , therefor.

In Column 9, Line 57, delete " $X_{imag,1}$ " and insert - -  $X_{imag,i}$  - - , therefor.

In Column 9, Line 60, Equation (24), delete " $(N/2)]^b$ " and insert - -  $(N/2)]^T$  - - , therefor.

In Column 10, Line 25, after "further" insert - - defined - - .

In Column 10, Line 26, delete " $N-1$ " and insert - -  $L-1$  - - , therefor.

In Column 11, Line 42, in Equation (40), delete " $\hat{Y}_i = V \cdot X_i + Z_i(X_i - \bar{X}_{i-1})$ ," and insert - -  $\hat{Y}_i = V_i \bullet X_i + Z_i(X_i - \bar{X}_{i-1})$  - - , therefor.

In Column 11, Line 63, in Equation (43), delete " $Z_{i+1}Z_i + \mu E_i(X_i^* - \bar{X}_{i-1}^*)^T$ ," and insert - -  $Z_{i+1} = Z_i + \mu E_i(X_i^* - \bar{X}_{i-1}^*)^T$  - - , therefor.

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In Column 13, above Equation 47,

insert - -  $V_{i+1} = V_i + \mu E_i \bullet (X_{rep_i}^*)^T$  (46) - -.

In Column 13, Line 5, Equation (47), delete “ $V_{i+1} = V_i + \mu E_i (X_i^* - \bar{X}_{i-1}^*)^T$ ,” and

insert - -  $Z_{i+1} = Z_i + \mu E_i (X_i^* - \bar{X}_{i-1}^*)^T$  - -, therefor.

In Column 13, Line 37, delete “ $\{(V_i \cdot x_i)_1 q\}$ ” and insert - -  $\{(V_i \cdot x_i)_1 q\}$  - -, therefor.

In Column 13, Line 51, in Equation (51), delete “ $Z_{i+1} = Z_i + \mu E_{rep_i} (X_i^* - \bar{X}_{i-1}^*)^T$ ,” and

insert - -  $Z_{i+1} = Z_i + \mu E_{rep_i} (X_i^* - \bar{X}_{i-1}^*)^T$  - -, therefor.

In Column 14, Line 43, delete “(29).” and insert - - (39). - -, therefor.

In Column 16, Line 59, in Claim 17, after “remove” insert - - the transformed estimate - -.

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